(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 15 December 2005 (15.12,2005)

PCT

(10) International Publication Number WO 2005/120060 A1

(51) International Patent Classification⁷: G11B 27/32

H04N 5/76,

(21) International Application Number:

PCT/JP2005/010441

(22) International Filing Date: 1 June 2005 (01.06.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 2004-165006 2 June 2004 (02.06.2004)

(71) Applicant (for all designated States except US): MAT-SUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka, 5718501 (JP).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): TOMA, Tadamasa. KADONO, Shinya. OKADA, Tomoyuki.
- (74) Agent: NII, Hiromori; c/o NII Patent Firm, 3rd Floor, Shin-Osaka Suehiro Center Bldg., 11-26, Nishinakajima 3-chome, Yodogawa-ku, Osaka-shi, Osaka, 5320011 (JP).

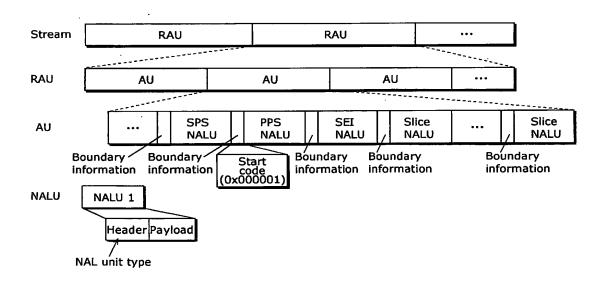
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: PICTURE CODING APPARATUS AND PICTURE DECODING APPARATUS



(57) Abstract: A picture coding apparatus (10) which generates a stream so as to be able to decode a picture by obtaining a picture parameter set necessary for decoding the picture even at the time of trick-play, the apparatus including: a slice coding unit (11) which codes the picture and generates coded data; a picture parameter set (PPS) generation unit (13) which generates sequence parameter set (SPS); a PPS generation unit (16) which generates the PPS; and an access unit (AU) determination unit 17 which stores pieces of coded data respectively into access units of a random access unit (RAU) and stores the SPS into a first AU, and stores the PPS into the first AU or into the AU in which one piece of the coded data that refers to the PPS is stored.



WO 2005/120060 A1



 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.